

WHAT IS CLAIMED IS:

1. A cathode ray tube comprising a panel provided with a colored layer on an outer surface of a face portion, wherein an emission luminance ratio is 75% or higher in a lowest part relative to a highest part and a diffuse reflectance ratio is 90% or higher in a lowest part relative to a highest part in an image display area of the face portion.

2. The cathode ray tube according to claim 1, wherein a light transmittance of the colored layer in a periphery of the face portion is the same as or larger than a light transmittance in a center.

3. The cathode ray tube according to claim 1, wherein the outer surface of the face portion is substantially flat and an inner surface thereof is curved, and a light transmittance ratio of the colored layer is 100 to 120% in a peripheral portion on a minor axis of the face portion relative to a center.

4. The cathode ray tube according to claim 1, wherein a boundary line showing a distribution of light transmittance in the colored layer is a convex form protruding from the center of the face portion toward the periphery.

5. The cathode ray tube according to claim 4, wherein the boundary line is an approximately Ω letterform protruding more toward a peripheral direction in a vicinity of a major axis of the face portion.

6. A method for manufacturing the cathode ray tube according to any one of claims 1 to 5, wherein the colored layer is allowed to have a distribution of light transmittance by changing an application quantity of a coloring agent.

7. The method for manufacturing the cathode ray tube according to claim 6, wherein the application quantity of the coloring agent is changed by changing an application speed.

8. The method for manufacturing the cathode ray tube according to claim 6, wherein the application quantity of the coloring agent is changed by changing a distance between the face portion and an application apparatus.

9. The method for manufacturing the cathode ray tube according to

claim 6, wherein the application quantity of the coloring agent is changed by changing a spray quantity from an application apparatus.

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